



PTO/SB/08A (10-01)

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Substitute for form 1449A/PTO			Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			Application Number	10/634,035		
(use as many sheets as necessary)			Filing Date	August 4, 2003		
Sheet	1	of 3	First Named Inventor	Richard D. McCullough		
			Art Unit	Not Yet Assigned		
			Examiner Name	Not Yet Assigned		
			Attorney Docket Number	010500DIV2		
U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
RG		4,508,639	04/02/1985	Camps et al.		
RG		4,521,589	06/04/1985	Yamamoto et al.		
RG		4,929,388	05/29/1990	Wessling		
RG		4,935,164	06/19/1990	Wessling et al.		
RG		5,028,354	07/02/1991	Smith et al.		
RG		5,217,649	06/08/1993	Kulkarni et al.		
RG		5,281,363	01/25/1994	Shacklette et al.		
RG		5,358,546	10/25/1994	Rieke		
RG		5,391,622	02/21/1995	Ho et al.		
RG		5,427,855	06/27/1995	Heeger et al.		
RG		5,476,612	12/19/1995	Wessling et al.		
RG		5,571,454	11/05/1996	Chen et al.		
RG		5,756,653	05/26/1998	Rieke		
RG		6,025,462	02/15/2000	Wang et al.		
RG		6,166,172	12/26/2000	McCullough et al.		
RG		6,190,846	02/20/2001	Majumdar et al.		
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶

Examiner Signature	Rachel Gou	Date Considered	May 6, 2004
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		First Named Inventor	Richard D. McCullough et al.
		Art Unit	Not Yet Assigned
Sheet 2 of 3		Examiner Name	Not Yet Assigned
Attorney Docket Number		010500DIV2	
OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
RG		McCullough, "The Chemistry of Conducting Polythiophenes", <i>Advanced Materials</i> , Vol. 10, No. 2, pp. 93-116 (1999)	
RG		Guillerez et al. "New Convenient Synthesis of Highly Regioregular Poly(3-octylthiophene) Based on the Suzuki Coupling Reaction", <i>Synthetic Metals</i> , Vol. 93, pp. 123-126 (1998)	
RG		Iraqi et al., "Synthesis and Characterisation of Telechelic Regioregular Head-to-Tail Poly (3-Alkylthiophenes)", <i>Mater. Chem.</i> , Vol. 8, No. 1, pp. 25-29 (1998)	
RG		Shirakawa et al., "Cross-Coupling Reaction of Organostannanes with Aryl Halides Catalyzed by Nickel-Triphenylphosphine or Nickel-Lithium Halide Complex", <i>Synthesis</i> , pp. 1544-1549 (October 1998)	
RG		Boymond et al., "Preparation of Highly Functionalized Grignard Reagents by an Iodine-Magnesium Exchange Reaction and its Application in Solid-Phase Synthesis", <i>Angew. Chem. Int. Ed.</i> , Vol. 37, No. 12, pp. 1701-1703 (1998)	
RG		Bao et al., "Soluble and Processable Regioregular Poly(3-hexylthiophene) for Thin Film Field-Effect Transistor Applications with High Mobility", <i>Appl. Phys. Lett.</i> , Vol. 69 (26), pp. 4108-4110 (1995)	
RG		Chen et al., "Regiocontrolled Synthesis of Poly(3-alkylthiophenes) Mediated by Rieke Zinc: Their Characterization and Solid-State Properties", <i>J. Am. Chem. Soc.</i> , Vol. 117, pp. 233-244 (1995)	
RG		Mao et al., "Synthesis and Structure-Property Relationships of Regioirregular Poly(3-hexylthiophenes)", <i>Macromolecules</i> , Vol. 26, pp. 1163-1169 (1993)	
RG		McCullough et al., "Design, Synthesis, and Control of Conducting Polymer Architectures: Structurally Homogeneous Poly(3-alkylthiophenes)", <i>J. Org. Chem.</i>	
RG		Farina et al., "Palladium-Catalyzed Coupling of Arylstannanes with Organic Sulfonates: A Comprehensive Study", <i>J. Org. Chem.</i> , Vol. 58, pp. 5434-5444 (1993)	
RG		Yamamoto et al., "Preparation of π -Conjugated Poly(thiophene-2,5-diyl), Poly(p-phenylene), and Related Polymers Using Zerovalent Nickel Complexes. Linear Structure and Properties of the π -Conjugated Polymers", <i>Macromolecules</i> , Vol. 25, pp. 1214-1223 (1992)	
Examiner Signature	Rachel Yow		Date Considered May 6, 2004



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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) Sheet <u>3</u> of <u>3</u>		Complete if Known	
		Application Number	10/634,035
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		Art Unit	Not Yet Assigned
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OTHER PRIOR ART OR NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
RG		Liu et al., "Employing MALDI-MS on Poly (alkylthiophenes): Analysis of Molecular Weights, Molecular Weight Distributions, End-Group Structures, and End-Group Modifications", <i>Macromolecules</i> , Vol. 32, pp. 5777-5785 (1999).	
		United States Patent Application Serial No. 10/417,244, filed April 16, 2003 with Preliminary Amendment (Attorney Docket No. 010500DIV)	
		<i>applications not listed on front of patent</i>	

Examiner Signature	<i>Rachel Lou</i>	Date Considered	<i>May 6, 2004</i>
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